

Name: \_\_\_\_\_

**pb1103: Factoring when  $a = \text{prime}$  (v42)**

1. Factor the expression  $2x^2 + 23x + 45$

$$(2x + 5)(x + 9)$$

2. Factor the expression  $3x^2 + 34x + 63$

$$(3x + 7)(x + 9)$$

3. Factor the expression  $7x^2 - 37x + 36$

$$(7x - 9)(x - 4)$$

4. Factor the expression  $3x^2 + 5x - 8$

$$(3x + 8)(x - 1)$$

5. Factor the expression  $7x^2 - 46x + 24$

$$(7x - 4)(x - 6)$$

6. Factor the expression  $3x^2 - 17x + 24$

$$(3x - 8)(x - 3)$$

7. Factor the expression  $11x^2 + 49x - 30$

$$(11x - 6)(x + 5)$$

8. Factor the expression  $11x^2 + 37x + 12$

$$(11x + 4)(x + 3)$$

9. Factor the expression  $11x^2 + 90x + 16$

$$(11x + 2)(x + 8)$$

10. Factor the expression  $11x^2 - 68x - 63$

$$(11x + 9)(x - 7)$$